

Arizona.

Gold and Silver in 1911.

The gold production in Arizona in 1911 increased slightly and the silver output considerably over the yield of 1910, according to V. C. Heikes, of the United States Geological Survey. The greater production of gold was attributable to the mining of siliceous lead ores, and copper lead ores, as the total gold output from copper ores remained about the same as in 1910. The principal producers of siliceous gold ores were the Tom Reed, Gold Road, North Star, Tiger, Congress, and Vulture mines, in Mohave, Yuma, Yavapai, and Maricopa counties. There is promise of an increased output from the dry placers near Quartzsite, in Yuma County, and from the vicinity of Greenterville, in Cochise County. Placer mining was revived on Frisco River, in the Clifton-Morenci district of Greenlee County. The dredges in Yavapai County, on Lynx Creek and near Kirkland, were not successfully operated. Two dredging plants of the suction type were erected on the Colorado River, one in Arizona and the other near Pabreah, Utah. Both plants are said to be operating and producing.

The increased output of silver depends mainly on the increased production of copper and lead ores. All the old copper producers at Bisbee, Clifton, Globe, and Jerome maintained an output which combined made nearly the same yield of ore as in 1910. The mines of the Consolidated-Arizona and the two new producers, the Miami and Ray, largely made up for the idleness of the Imperial and the curtailed output of several other properties. However, there was a large increase in lead output and a somewhat larger zinc production, due to greater yield of lead ore in the Warren district of Cochise County and the zinc and lead ores of Mohave County. The largest silver producers of recent years have been the Commonwealth and Tombstone mines. The output of silver diminished in 1911. The Commonwealth is in the hands of new owners and the Tombstone is worked by lessees.

Near Paradise a 10-ton concentration mill was started in November. The 20-stamp amalgamation and cyanidation mill built in 1910 at the Vulture mine, in Maricopa County, has been in successful operation. New mill equipment was ordered for the Big Blue mine and the Monarch mine, the latter having been idle three years. The Tom Reed and Gold Road mines, in Mohave county, produce gold-bearing ore, which is treated in cyanide plants. The former averaged nearly 65,000\$ in gold per month from the operation of its 20-stamp mill in 1911, and the latter, with a better grade of ore than formerly, averaged nearly the same amount from the treatment of about 300 tons daily. In the Union Pass district the Frisco mill, recently built, provides for fine grinding and cyanidation.

Two other gold mills, the Gold Crown and Ruth, were operated. In Todd Basin the Oro Plata mill is under construction. The new owners of the Southern Belle mine, in Pinal County, have ordered a 100-ton mill. The Huebabi mine, on Santa Cruz River, in Santa Cruz County, was recently equipped with a tube mill and cyanide plant. Large bodies of low-grade ore are reported to exist in this mine. The Congress mine and mill, in Yavapai County, were closed after being operated the first three months of 1911. At the Monica and Rincon gold mines preparations were made to operate. The Tiger mine and mill, near Crown King, were operated steadily, producing gold bullion and lead concentrates. Grading was commenced for the cyanide mill on the Venezia mine, in Crook Canyon. In Yuma County the Safford Lane mill, near Vicksburg, was in regular operation, and also the North Star at Kofa.

According to the preliminary figures prepared by the Director of the Mint, which do not include statistics of exports, the production of gold in Arizona in 1911 was valued at 2,954,700\$ and that of silver was 1,594,428 fine ounces, valued at 846,935\$. Final figures for 1910 gave for Arizona 3,413,200\$ worth of gold and 2,655,700 fine ounces of silver, valued at 1,434,100\$.

Lead and Zinc in

Yavapai Pay Well.

A Prescott dispatch says:—George C. Meese, general manager of the Ari-

zona Lead and Zinc company, has decided to install a reduction plant at the U. S. Navy mine in Copper Basin district, and left for Joplin, Mo., on Sunday to confer with associates to this end. This decision was reached after the lower levels were pumped out, which exposed an immense tonnage of lead and zinc ores ready for stoping. Added to this are the breasts of the four drifts showing ore bodies of workable zinc and richness.

Machinery was recently installed to begin exploration, and the initial movement to this end was the unwatering of all levels, which was accomplished a few days ago, and the mineralogical showing was as had been represented.

While negotiations were under way for the purchase of this property the surface workings only were investigated and the conditions being favorable the sale was closed and first payment made.

A shipment was made several days ago of 80,000 pounds of ore from the old dumps that accumulated from former operations conducted for gold and copper values. This ore was treated in a specially designed plant which proved successful, hence the intention to erect a similar process at the mines, necessarily follows.

The company is the first to enter this field on the distinctive basis of mining for lead and zinc. With the determinations made in the past few months, mining circles are showing marked interest in this branch of mining. There is a belt in this section of Arizona which has great possibilities in the near future in those metals.

It is reported that the 80,000 pounds shipped to Joplin for a test run, exceeded 15\$ per ton in net returns, which, considering the time consumed in sorting, wagon and rail transportation and miscellaneous handling was better than was expected."

Inspiration Starts Construction of Dam.

The Inspiration Copper company has started work on its dam across Pinal creek 16 miles from the mine. The dam will be the chief source of water-supply for the concentrator.

It will be built of concrete rubble masonry will be 75 feet long, and average 25 feet high. There will be a concrete forebay and a tunnel to connect with the pumping station.

The method of concentration recommended by J. M. Callow is being tested by him in the experimental mill. It is designed to be an improvement on the roughing system as practiced in many of the large mills of the country and aims first, by means of graded crushing to produce a comparatively small amount of slime and second, by application of the roughing system without classification, to remove the greatest possible amount of copper from the slime before it is separated from the sand and sent to the slime-treating machinery, the best of which is notoriously inefficient in recovering the metallic content from slime.—Globe Silver Belt.

Carload Goes to Needles Smelter.

Messrs. Charles J. Carr and Charles Fearney were up this week from their Leadville property, thirty miles south of Searchlight and over the line in California. These gentlemen are working this property in company with George Weeks, and have a car of ore ready for shipment to the Needles smelter. Lew Sherwood, the freighter, goes down this week to haul the stuff from the mine to the Santa Fe at Ibis. The ore is silver-lead, with very gratifying values. It is being taken from a slope which is being worked upward from the fifty-foot level. There are two shafts about thirty feet apart, which are connected by a lateral, and the ore shows all the way for the thirty feet. Values are increasing as work progresses, with the silver content becoming greater.—Searchlight Bulletin.

For Sale Cheap.

One good Behring & Sons piano, walnut case. In fine condition. Must be cash—\$150. Address, Lock Box 161.

Do you know that fully nine out of every ten cases of rheumatism are simply rheumatism of the muscles due to cold or damp, or chronic rheumatism, and require no internal treatment whatever? Apply Chamberlain's Liniment freely and see how quickly it gives relief. For sale by all dealers.

The Live Oak Mine Discontinues Drilling.

The Live Oak Development Co. has discontinued churn-drilling operations and while they may be resumed after the return from the East of Manager M. E. McCarthy, it is believed that future development will be confined to underground work.

The station on the 900-foot level in No. 2 shaft, near the western end of the property, is virtually completed and it is intended to begin drifting on the ore this week. At the eastern end of the ore body, a drift is being driven from No. 1 shaft, on the fourth level, and is reported to be faced in ore. Raises are being driven from this level on two of the churn-drill holes.—Globe Silver Belt.

Constipation is the cause of many ailments and disorders that make life miserable. Take Chamberlain's Stomach and Liver Tablets, keep your bowels regular and you will avoid these diseases. For sale by all dealers.

Gaddis & Perry Company

Purveyors to the Public and Dealers in

General Merchandise

Combined with every necessity to the Miner, Farmer and Stock Man

Our Diamond M Flour is unsurpassed. We keep constantly on hand

Mining Supplies
Blacksmith Coal
Black Diamond Steel
Every Kind and class of tool used by Miner and Farmer
Fresh Eggs and Sandy Honey
Best Butter in the Market
Shelf Hardware
And we carry
Furnishing Goods
High class Shoes
Comforters
Blankets
Mattresses and Pillows

3 Stores 3
Kingman, Yucca Cerbat

Don't Wait Until After a Fire to Protect Your Home
Insure It Now In One of Our Strong Companies

THE CITIZENS BANK

Agents for
The Caledonian, Queen, and Scottish
Union & National Insurance Companies
Address: A. J. McKELVEY, Cashier

CHLORIDE STORE COMPANY

Miners' Supplies, Provisions, Groceries,
Hardware, Dry Goods, Gent's Furnishings,
Comforts, Blankets, Mattresses,
Bedsteads, Cots, Wall Tents, Iron Pipe,
Gasoline, Coal Oil, Lubricating Oil,
CANTON DRILL STEEL, HAY, GRAIN AND COAL.

STORES AT

CHLORIDE and MINERAL PARK

Robert Rosco & Co.

Painters and Paper-hangers, Signs and Decorators.
Manufacturers of

Mirrors, chipped and ground glass.

Your name on same for door plate.

AGENT FOR

Arizona Powder Paint. Requires no oil. A long felt want. A paint for all purposes. 75 per cent cheaper than Oil Paint and is water, weather and fire-proof. For inside and outside of building. Send for circular.

P. O. Box 316

Kingman, Ariz.

PROFESSIONAL.

FERO. W. MORRISON,
ATTORNEY AT LAW.
LOS ANGELES, CAL

Offices: 611-15 American Bank Building

CARL G. KROOK
LAWYER
George Building KINGMAN, ARIZ.

C. W. HERNDON
ATTORNEY AT LAW
Will Practice in all the Courts of the Territory
Office in the LUTHY BLOCK, KINGMAN

SURVEYING.

P. McCARDELL
U. S. MINERAL SURVEYOR
CIVIL ENGINEER
KINGMAN. - - - ARIZONA

H. G. SCHADER
MINING ENGINEER
U. S. Mineral Surveyor
Member of American Institute of Mining Engineers.
Licensed in California.
Kingman, - - - Arizona

City Meat Market...

Hotel Beale Block
Kingman, Arizona

A. F. HARRIS, Proprietor
(Successor to Grounds & Crozier)

Always on Hand

Beef
Pork
Mutton
Poultry
Fish

Meat Products

Out-of town orders solicited
and prompt shipments made

Mohave

County

Miner

Gives the News

Subscription

\$3 Per Year